**Table of Contents: Volume 6 (1991)**

**Number 1**


Color Constancy from Mutual Reflection ..... *Brian V. Funt, Mark S. Drew, and Jian Ho* 5
Determining Optical Flow for Irregular Domains by Minimizing Quadratic Functionals of a Certain Class ..... *C. Schnörr* 25
A Cost-Benefit Analysis of a Third Camera for Stereo Correspondence ..... *Umesh R. Dhond and J.K. Aggarwal* 39
Robust Regression Methods for Computer Vision: A Review ..... *Peter Meer, Doron Mintz, Dong Yoon Kim and Azriel Rosenfeld* 59


**Number 2**


Uniqueness in Shape from Shading ..... *J. Oliensis* 75
Asymptotic Bayesian Surface Estimation Using an Image Sequence ..... *Yi-Ping Hung, David B. Cooper and Bruno Cernuschi-Frias* 105
Computing Optical Flow Across Multiple Scales: An Adaptive Coarse-to-Fine Strategy ..... *Roberto Battiti, Edoardo Amaldi and Christof Koch* 133
Emulating the Human Interpretation of Line-Drawings as Three-Dimensional Objects ..... *Thomas Marill* 147


**Number 3**


Editorial ..... *Rodney Brooks* 171

**Marr Prize Paper**

Shape from Interreflections ..... *Shree K. Nayar, Katsushi Ikeuchi and Takeo Kanade* 173

**Regular Papers**

A Topological Stereo Matcher ..... *Margaret M. Fleck* 197
A Common Framework for Image Segmentation ..... *Davi Geiger and Alan Yuille* 227
A Multi-frame Approach to Visual Motion Perception ..... *Minas Spetsakis and John (Yiannis) Aloimonos* 245